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BAHI-011

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

00383

Term-End Examination

December, 2016

BAHI-011 : APPLIED SEROLOGY, IMMUNOLOGY AND MICROBIOLOGY

Time : 3 hours *Maximum Marks : 70*

Note : *Attempt any* ***six*** *questions. Question no. 8 is* ***compulsory.***

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1. Define immunity. Briefly discuss acquired and innate immunity. *2+6=8*

2. Describe the different types of ELISA. Critically discuss the principles and advantages of ELISA. *2+3+3=8*

3. Define immunoglobulins. Discuss in detail the different types of antigen-antibody interactions. *2+6=8*

4. Define gel electrophoresis. Discuss in detail the application of gel electrophoresis. *2+6=8*

5. Define hypersensitivity. Briefly discuss the delayed type of hypersensitivity. *2+6=8*

6. What is flow cytometer ? Discuss in detail its principle and applications. *2+3+3=8*

7. Define Polymerase Chain Reaction (PCR). What is real time PCR ? Discuss critically the applications of PCR. *2+2+4=8*

8. Write short notes on any ***five*** of the following : *5×6=30*

   (a) Hypersensitivity

   (b) Indirect Immunofluorescence Assay (IFA)

   (c) Hospital Acquired (Nosocomial) Infection (HAI)

   (d) Immune Paralysis

   (e) Automated Microbial Detection System

   (f) Bacteriological Examination of Water

   (g) Automation in Microbiology Laboratory

   (h) Immune Response